

WHAT IS CLAIMED IS:

1. A method for managing a first component of a wireless network using a second component of the wireless network, the method comprising:

when a configuration recovery mode is selected manually at the second component
5 without accessing a network interface of the second component, sending a configuration signal from the second component to the first component, wherein the configuration signal specifies that the first component is to perform a reconfiguration.

2. A method as recited in claim 1, further comprising:

when the configuration signal is sent by the second component to the first component,
10 determining whether the first component has successfully completed the reconfiguration and displaying at the second component an indication as to whether the first component has successfully completed the reconfiguration.

3. A method as recited in claim 1, wherein the reconfiguration includes loading a factory default configuration into the first component.

15 4. A method as recited in claim 1, further comprising:

when an image recovery mode is selected manually at the second component without accessing the network interface of the second component, sending an image recovery signal from the second component to the first component, wherein the image recovery signal specifies that the first component is to initiate an operation for downloading new software to the first
20 component.

5. A method as recited in claim 4, further comprising:

when the image recovery signal is sent by the second component to the first component, determining whether the first component has successfully initiated the new software download operation and displaying at the second component an indication as to whether the first component has successfully initiated the new software download operation.

6. A method as recited in claim 4, wherein the new software download operation includes downloading new software from the second component to the first component.

7. A method as recited in claim 4, wherein the manual selection of the configuration recovery mode is performed by pressing a recovery button for a first time period and the manual selection of the image recovery mode is performed by pressing a recovery button for a second time period which differs from the first time period.

8. A method as recited in claim 7, wherein the configuration signal is a periodic signal sent for a time period corresponding to the pressing of the recovery button for the first time period and the image recovery signal is a periodic signal sent for a time period corresponding to the pressing of the recovery button for the second time period.

9. A method as recited in claim 4, wherein the configuration recovery mode and image recovery mode may only be manually selected during a powering up of the second component.

10. A method as recited in claim 9, further comprising:

upon powering up the second component, disabling power from being injected from the second component to the first component and sending a discovery signal to the first component;

after the discovery signal is returned by the first component to the second component, injecting power from the second component into the first component;

5 after the discovery signal is sent to the first component and when the discovery signal is not returned by the first component, continuing to disable power to the first component;

wherein the configuration signal is sent by maintaining the discovery signal for a first time period after injecting power into the first component and the image recovery signal is sent by maintaining the discovery signal for a second time period after injecting power into the first component; and

10 when power has been injected into the second component and (i) when the configuration recovery mode and the image recovery mode are not selected manually or (ii) after the configuration signal is sent in the form of the discovery signal, removing the discovery signal from being sent to the first component,

15 11. A method as recited in claim 10, wherein the first and second time periods for maintaining the discovery signal correspond to a time for which the configuration mode or image recovery mode is manually selected, respectively, the method further comprising:

after the discovery signal is removed, sending a second discovery signal from the second component to the first component which is not detectable by the first component; and

20 when the second discovery signal is not returned to the second component, displaying at the second component an indication that the first component has completed its initialization procedures.

12. A method as recited in claim 11, further comprising:

after injecting power into the first component, at the second component monitoring the connection between the first and second component; and

when a failure is detected in the connection between the first and second components,
5 disabling power injection from the second component to the first component.

13. A method as recited in claim 12, further comprising displaying at the second component an indication that power to the first component has been disabled.

14. A method for managing a first component of a wireless network using a second component of the wireless network, the method comprising:

10 when an image recovery mode is selected manually at the second component without accessing a network interface of the second component, sending an image recovery signal from the second component to the first component, wherein the image recovery signal specifies that the first component is to perform an image recovery.

15. A method as recited in claim 14, further comprising:

15 when the image recovery signal is sent by the second component to the first component, determining whether the first component has successfully completed the image recovery and displaying at the second component an indication as to whether the first component has successfully completed the image recovery.

16. A first apparatus operable to manage a second apparatus of a wireless network,
20 the computer system comprising:

one or more processors;

one or more memory, wherein at least one of the processors and memory are adapted for:

when a configuration recovery mode is selected manually at the first apparatus
5 without accessing a network interface of the first apparatus, sending a configuration
signal from the first apparatus to the second apparatus, wherein the configuration signal
specifies that the second apparatus is to perform a reconfiguration.

17. A first apparatus as recited in claim 16, wherein the at least one of the processors
and memory are further adapted for:

10 when the configuration signal is sent by the first apparatus to the second apparatus,
determining whether the second apparatus has successfully completed the reconfiguration and
displaying at the first apparatus an indication as to whether the second apparatus has
successfully completed the reconfiguration.

18. A first apparatus as recited in claim 16, wherein the at least one of the processors
15 and memory are further adapted for:

when an image recovery mode is selected manually at the first apparatus without
accessing the network interface of the first apparatus, sending an image recovery signal from the
first apparatus to the second apparatus, wherein the image recovery signal specifies that the
second apparatus is to initiate an operation for downloading new software to the second
20 apparatus.

19. A first apparatus as recited in claim 18, wherein the at least one of the processors and memory are further adapted for:

when the image recovery signal is sent by the first apparatus to the second apparatus, determining whether the second apparatus has successfully initiated the new software download operation and displaying at the first apparatus an indication as to whether the second apparatus has successfully initiated the new software download operation.

20. A first apparatus as recited in claim 18, wherein the manual selection of the configuration recovery mode is performed by pressing a recovery button for a first time period and the manual selection of the image recovery mode is performed by pressing a recovery button for a second time period which differs from the first time period.

21. A first apparatus recited in claim 18, wherein the configuration recovery mode and image recovery mode may only be manually selected during a powering up of the first apparatus.

22. A first apparatus as recited in claim 21, wherein the at least one of the processors and memory are further adapted for:

upon powering up the first apparatus, disabling power from being injected from the first apparatus to the second apparatus and sending a discovery signal to the second apparatus;

after the discovery signal is returned by the second apparatus to the first apparatus, injecting power from the first apparatus into the second apparatus;

after the discovery signal is sent to the second apparatus and when the discovery signal is not returned by the second apparatus, continuing to disable power to the second apparatus;

wherein the configuration signal is sent by maintaining the discovery signal for a first time period after injecting power into the second apparatus and the image recovery signal is sent by maintaining the discovery signal for a second time period after injecting power into the second apparatus; and

5 when power has been injected into the second apparatus and (i) when the configuration recovery mode and the image recovery mode are not selected manually or (ii) after the configuration signal is sent in the form of the discovery signal, removing the discovery signal from being sent to the second apparatus,

23. A first apparatus as recited in claim 22, wherein the first and second time periods
10 for maintaining the discovery signal correspond to a time for which the configuration mode or image recovery mode is manually selected, respectively, wherein the at least one of the processors and memory are further adapted for:

after the discovery signal is removed, sending a second discovery signal from the first apparatus to the second apparatus which is not detectable by the second apparatus; and

15 when the second discovery signal is not returned to the first apparatus, displaying at the first apparatus an indication that the second apparatus has completed its initialization procedures.

24. A first apparatus as recited in claim 23, further comprising:

after injecting power into the second apparatus, at the first apparatus monitoring the
20 connection between the first and second apparatus; and

when a failure is detected in the connection between the first and second apparatus disabling power injection from the first apparatus to the second apparatus.

25. A first apparatus as recited in claim 24, wherein the at least one of the processors and memory are further adapted for displaying at the first apparatus an indication that power to the second apparatus has been disabled.

26. A first apparatus as recited in claim 16, wherein the at least one of the processors and memory are further adapted for running Ethernet signals on outdoor rated coaxial cables coupled to the first apparatus, wherein the outdoor rated coaxial cables are also coupled to the second apparatus.

27. A first apparatus as recited in claim 26, wherein the at least one of the processors and memory are further adapted for converting Ethernet signals coming from an indoor network device coupled to the first apparatus through a Cat5 into Ethernet signals on outdoor rated coaxial cables.

28. A first apparatus as recited in claims 27, wherein the outdoor rated coaxial cables are 75 ohm CaTV type coax cables.

29. A first apparatus as recited in claim 28, wherein the at least one of the processors and memory are further adapted for transmitting and receiving data on the outdoor rated coaxial cables at a rate selected from a group consisting of 10 Mbps, 100 Mbps, 1 Gbps, and 10 Gbps.

30. A computer program product for managing a first component of a wireless network using a second component of the wireless network, the computer program product comprising:

at least one computer readable medium;

5 computer program instructions stored within the at least one computer readable product configured for:

when a configuration recovery mode is selected manually at the second component without accessing a network interface of the second component, sending a configuration signal from the second component to the first component, wherein the
10 configuration signal specifies that the first component is to perform a reconfiguration.

31. A computer program product as recited in claim 30, the computer program instructions stored within the at least one computer readable product being further configured for:

when the configuration signal is sent by the second component to the first component,
15 determining whether the first component has successfully completed the reconfiguration and displaying at the second component an indication as to whether the first component has successfully completed the reconfiguration.

32. A computer program product as recited in claim 30, wherein the reconfiguration includes loading a factory default configuration into the first component.

33. A computer program product as recited in claim 30, the computer program instructions stored within the at least one computer readable product being further configured for:

when an image recovery mode is selected manually at the second component without
5 accessing the network interface of the second component, sending an image recovery signal from the second component to the first component, wherein the image recovery signal specifies that the first component is to initiate an operation for downloading new software to the first component.

34. A method as recited in claim 33, the computer program instructions stored within
10 the at least one computer readable product being further configured for:

when the image recovery signal is sent by the second component to the first component, determining whether the first component has successfully initiated the new software download operation and displaying at the second component an indication as to whether the first component has successfully initiated the new software download operation.

15 35. A computer program product as recited in claim 33, wherein the new software download operation includes downloading new software from the second component to the first component.

36. A computer program product as recited in claim 33, wherein the manual selection of the configuration recovery mode is performed by pressing a recovery button for a first time
20 period and the manual selection of the image recovery mode is performed by pressing a recovery button for a second time period which differs from the first time period.

37. A computer program product as recited in claim 36, wherein the configuration signal is a periodic signal sent for a time period corresponding to the pressing of the recovery button for the first time period and the image recovery signal is a periodic signal sent for a time period corresponding to the pressing of the recovery button for the second time period.

5 38. A computer program product as recited in claim 33, wherein the configuration recovery mode and image recovery mode may only be manually selected during a powering up of the second component.

39. A computer program product as recited in claim 38, the computer program instructions stored within the at least one computer readable product being further configured
10 for:

upon powering up the second component, disabling power from being injected from the second component to the first component and sending a discovery signal to the first component;

after the discovery signal is returned by the first component to the second component, injecting power from the second component into the first component;

15 after the discovery signal is sent to the first component and when the discovery signal is not returned by the first component, continuing to disable power to the first component;

wherein the configuration signal is sent by maintaining the discovery signal for a first time period after injecting power into the first component and the image recovery signal is sent by maintaining the discovery signal for a second time period after injecting power into the first
20 component; and

when power has been injected into the second component and (i) when the configuration recovery mode and the image recovery mode are not selected manually or (ii) after the configuration signal is sent in the form of the discovery signal, removing the discovery signal from being sent to the first component,

5 40. A computer program product as recited in claim 39, wherein the first and second time periods for maintaining the discovery signal correspond to a time for which the configuration mode or image recovery mode is manually selected, respectively, the computer program instructions stored within the at least one computer readable product being further configured for:

10 after the discovery signal is removed, sending a second discovery signal from the second component to the first component which is not detectable by the first component; and

 when the second discovery signal is not returned to the second component, displaying at the second component an indication that the first component has completed its initialization procedures.

15 41. A computer program product as recited in claim 40, the computer program instructions stored within the at least one computer readable product being further configured for:

 after injecting power into the first component, at the second component monitoring the connection between the first and second component; and

20 when a failure is detected in the connection between the first and second components, disabling power injection from the second component to the first component.

42. A computer program product as recited in claim 41, further comprising displaying at the second component an indication that power to the first component has been disabled.

43. A computer program product for managing a first component of a wireless network using a second component of the wireless network, the method comprising:

when an image recovery mode is selected manually at the second component without accessing a network interface of the second component, sending an image recovery signal from the second component to the first component, wherein the image recovery signal specifies that the first component is to perform an image recovery.

44. A computer program product as recited in claim 43, the computer program instructions stored within the at least one computer readable product being further configured for:

when the image recovery signal is sent by the second component to the first component, determining whether the first component has successfully completed the image recovery and displaying at the second component an indication as to whether the first component has successfully completed the image recovery.

45. A computer program product for managing a first component of a wireless network using a second component of the wireless network, the computer program product comprising:

at least one computer readable medium;

computer program instructions stored within the at least one computer readable product configured for:

when an image recovery mode is selected manually at the second component without accessing a network interface of the second component, sending an image recovery signal from the second component to the first component, wherein the image recovery signal specifies that the first component is to perform an image recovery.

46. A computer program product as recited in claim 45, the computer program instructions stored within the at least one computer readable product being further configured for:

when the image recovery signal is sent by the second component to the first component, determining whether the first component has successfully completed the image recovery and displaying at the second component an indication as to whether the first component has successfully completed the image recovery.

47. An apparatus for managing a first component of a wireless network using a second component of the wireless network, comprising:

means for when a configuration recovery mode is selected manually at the second component without accessing a network interface of the second component, sending a configuration signal from the second component to the first component, wherein the configuration signal specifies that the first component is to perform a reconfiguration.